UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,784	10/31/2003	John Apostolopoulos	200312858-1	1717
	7590 01/30/200 CKARD COMPANY	EXAMINER		
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			ALMEIDA, DEVIN E	
	LINS, CO 80527-2400		ART UNIT	PAPER NUMBER
			2132	
		·	[]	
			NOTIFICATION DATE	DELIVERY MODE
			01/30/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		10/698,784	APOSTOLOPOULOS ET AL.			
		Examiner	Art Unit			
		Devin Almeida	2132			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHOWHIC - External after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tiruly apply and will expire SIX (6) MONTHS from cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).			
Status	•					
1)⊠	Responsive to communication(s) filed on <u>02 No</u>	<u>ovember 2007</u> .				
. ,	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	9				
4) Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-34 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
9) 🗆	The specification is objected to by the Examine	r.				
•	The drawing(s) filed on is/are: a)☐ acce		Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

This action is in response to the papers filed 6/5/2007. Claims 1-34 were received for consideration.

Response to Arguments

Applicant's arguments have been fully considered but they are not persuasive. Wee teaches a wherein said plurality of first data segments have a different priority than said plurality of second data segment on page page 3 col.2 ¶2 "Progressive encryption" methods have the property that smaller blocks of data are encrypted progressively. While block code encryption with small block sizes is not very secure, progressive encryption methods add a degree of security by feeding encrypted data of earlier blocks into the encryption of a later block~ Decryption can then be performed progressively as well. The first small block of cipher text can be decrypted into plaintext by itself while later blocks of cipher text depend on the decrypted plaintext from earlier blocks. Thus, earlier blocks of cipher text can be decrypted without knowledge of the entire cipher next segment. This progressive nature of cipher block chains and stream ciphers matches nicely with the progressive or embedded nature of scalable coding. It is this combination that enables efficient secure transcending operations to be performed in SSS." Since the first small block of ciphertext text can be decrypted into plaintext by itself while later blocks of cipher text depend on the decrypted plaintext from earlier blocks the fist block has a higher priority then the later blocks since it is needed to decrypt the later blocks.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 5-10, 12, 13, 23-30, and 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wee et al., "Secure Scalable Video Streaming for Wireless Networks," IEEE International Conference on Acoustics, Speech, and Signal Processing, Salt Lake City, Utah, May 2001, (hereinafter Wee) in view of Miller et al., U.S. Patent No. 5,790,669 (hereinafter Miller).

Regarding claim 1: Wee discloses a method (page 1 col. 2 ¶2) for ensuring the integrity of data, comprising: for a plurality of data packets comprising a plurality of first data segments and a plurality of second data segments (page 3 col. 1 ¶2), wherein said plurality of first data segments have a different priority than said plurality of second data segment (page 3 col.2 ¶2 i.e. Progressive encryption methods have the property that smaller blocks of data are encrypted progressively. While block code encryption with small block sizes is not very secure, progressive encryption methods add a degree of security by feeding encrypted data of earlier blocks into the encryption of a later block~ Decryption can then be performed progressively as well. The first small block of cipher text can be decrypted into plaintext by itself while later blocks of cipher text depend on

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the decrypted plaintext from earlier blocks. Thus, earlier blocks of cipher text can be decrypted without knowledge of the entire cipher next segment. This progressive nature of cipher block chains and stream ciphers matches nicely with the progressive or embedded nature of scalable coding. It is this combination that enables efficient secure transcending operations to be performed in SSS.).

Wee does not disclose calculating a cryptographic checksum for said plurality of said first data segments; and enabling said cryptographic checksum for said plurality of said first data segments to be transmitted separately from said plurality of data packets.

Miller discloses calculating a cryptographic checksum for said plurality of said first data segments (col. 1 lines 27-44); and enabling said cryptographic checksum for said plurality of said first data segments to be transmitted separately from said plurality of data packets (col. 2-3 lines 58-16).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 2: Wee discloses a plurality of said second data segments (page 3 col. 1 ¶2).

Wee does not disclose calculating a cryptographic checksum; and enabling said cryptographic checksum for said plurality of said second data segments to be transmitted separately from said plurality of data packets.

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Miller discloses calculating a cryptographic checksum (col. 1 lines 27-44); and enabling said cryptographic checksum for said plurality of said second data segments to be transmitted separately from said plurality of data packets (col. 2-3 lines 58-16).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 5: Wee discloses an opportunistic integrity checking scheme (page 1 col. 1 ¶3).

Regarding claim 6: Wee does not disclose that said calculating of said cryptographic checksum is performed using a technique selected from the group consisting of: a hash function providing a fingerprint of data contained in an encrypted data packet and which guarantees the authenticity of received data and the validity of decrypted data, Message Authentication Codes (MAC), Message Digest algorithms, keyed hashes, SHA (Secure Hash Algorithm), RIPEMD (RACE Integrity Primitives Evaluation Message Digest), HMAC (keyed-Hashing for Message Authentication), and digital signature schemes.

Miller discloses that said calculating of said cryptographic checksum is performed using the techniques of: a hash function providing a fingerprint of data contained in an encrypted data packet and which guarantees the authenticity of received data and the

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validity of decrypted data (col. 7 lines 40-44), and digital signature schemes (col. 1-2 lines 60-4).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 7: Wee discloses that said plurality of said data packets comprises secure scalably streamable data (Title).

Regarding claim 8: Wee discloses that said plurality of said data packets include data comprising scalably compressed data for media selected from the group consisting of: speech, audio, image (see 5.1: Scalable Coding – Packetization), video (page 1 col. 1 ¶2), and computer graphics

Regarding claim 9: Wee discloses that said plurality of said data packets include data scalably formatted according to the techniques of: JPEG-2000 (page 2 col. 1 ¶5) with spatial scalability (page 3 col. 1 ¶1 and ¶3); MPEG-1/2/4 (page 2 col. 1 ¶5) or H.261/2/3/4 (page 2 col. 1 ¶5) using spatial scalability (page 3 col. 1 ¶1 and ¶3); and progressive/scalable graphics compression (page 3 §5.1).

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Regarding claim 10: Wee discloses that said plurality of said data packets comprises media data (page 3 col. 1 ¶2).

Regarding claim 12: Wee discloses encrypting one or more data packets (pages 3-4 §5.2).

Regarding claim 13: Wee and Miller disclose said cryptographic checksum as indicated regarding claim 1, above. Wee further discloses encrypting (pages 3-4 §5.2).

Regarding claim 23: Wee discloses an apparatus for ensuring integrity of data, comprising:

a receiver for receiving a plurality of data packets each of said packets comprising one or more data segments (page 1 col. 1 ¶2) wherein said plurality of first data segments have a different priority than said plurality of second data segment (page 3 col.2 ¶2 i.e. Progressive encryption methods have the property that smaller blocks of data are encrypted progressively. While block code encryption with small block sizes is not very secure, progressive encryption methods add a degree of security by feeding encrypted data of earlier blocks into the encryption of a later block~ Decryption can then be performed progressively as well. The first small block of cipher text can be decrypted into plaintext by itself while later blocks of cipher text depend on the decrypted plaintext from earlier blocks. Thus, earlier blocks of cipher text can be decrypted without knowledge of the entire cipher next segment. This progressive nature of cipher block

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chains and stream ciphers matches nicely with the progressive or embedded nature of scalable coding. It is this combination that enables efficient secure transcending operations to be performed in SSS.).

Wee does not disclose a cryptographic checksum calculator coupled to said receiver, said cryptographic checksum calculator for calculating a cryptographic checksum for one or more of said data segments; or a cryptographic checksum appender coupled to said cryptographic checksum calculator for assembling said cryptographic checksum.

Miller discloses a cryptographic checksum calculator coupled to said receiver, said cryptographic checksum calculator for calculating a cryptographic checksum for one or more of said data segments (col. 1 lines 27-44); and a cryptographic checksum appender coupled to said cryptographic checksum calculator for assembling said cryptographic checksum (col. 2-3 lines 58-16).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 24: Wee discloses a plurality of data packets comprising a plurality of first data segments and a plurality of second data segments (page 3 col. 1 ¶2).

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Wee does not disclose that said cryptographic checksum calculator is enabled to calculate a cryptographic checksum for said plurality of said first data segments; or to enable said cryptographic checksum for said plurality of said first data segments to be transmitted separately from said plurality of data packets.

Miller discloses that said cryptographic checksum calculator is enabled to calculate a cryptographic checksum for said plurality of said first data segments (col. 1 lines 27-44); and to enable said cryptographic checksum for said plurality of said first data segments to be transmitted separately from said plurality of data packets (col. 2-3 lines 58-16).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 25: Wee does not disclose that said cryptographic checksum calculator is enabled to calculate said cryptographic checksum for said set of said data segments independently of cryptographic checksums calculated for other sets of said data segments.

Miller discloses that said cryptographic checksum calculator is enabled to calculate said cryptographic checksum for said set of said data segments independently of cryptographic checksums calculated for other sets of said data segments (col. 2-3 lines 58-16).

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Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 26: Wee discloses a forwarder for forwarding said packets to a destination (page 1-2 §2).

Regarding claim 27: Wee discloses a method for ensuring integrity of data, comprising:

receiving a data packet comprising an amount of data partitioned into a plurality of data segments (page 1 col. 1 ¶2), wherein said plurality of first data segments have a different priority than said plurality of second data segment (page 3 col.2 ¶2 i.e. Progressive encryption methods have the property that smaller blocks of data are encrypted progressively. While block code encryption with small block sizes is not very secure, progressive encryption methods add a degree of security by feeding encrypted data of earlier blocks into the encryption of a later block~ Decryption can then be performed progressively as well. The first small block of cipher text can be decrypted into plaintext by itself while later blocks of cipher text depend on the decrypted plaintext from earlier blocks. Thus, earlier blocks of cipher text can be decrypted without knowledge of the entire cipher next segment. This progressive nature of cipher block chains and stream ciphers matches nicely with the progressive or embedded nature of

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scalable coding. It is this combination that enables efficient secure transcending operations to be performed in SSS.).

Wee does not disclose calculating a cryptographic checksum for a first of said plurality of data segments; or enabling said cryptographic checksum for said first of said plurality of data segments to be transmitted separately from said data packet.

Miller discloses calculating a cryptographic checksum for a first of said plurality of data segments (col. 1 lines 27-44); and enabling said cryptographic checksum for said first of said plurality of data segments to be transmitted separately from said data packet (col. 2-3 lines 58-16).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 28: Wee discloses said first data segment and a second of said plurality of data segments (page 3 col. 1 ¶2). Wee does not disclose calculating cryptographic checksums. Miller discloses calculating cryptographic checksums (col. 1 lines 27-44).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

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Regarding claim 29: Wee discloses a method for ensuring integrity of data, comprising: receiving a data packet comprising an amount of data partitioned into at least a first data segment (page 1 col. 1 ¶2) wherein said plurality of first data segments have a different priority than said plurality of second data segment (page 3 col.2 ¶2 i.e. Progressive encryption methods have the property that smaller blocks of data are encrypted progressively. While block code encryption with small block sizes is not very secure, progressive encryption methods add a degree of security by feeding encrypted data of earlier blocks into the encryption of a later block~ Decryption can then be performed progressively as well. The first small block of cipher text can be decrypted into plaintext by itself while later blocks of cipher text depend on the decrypted plaintext from earlier blocks. Thus, earlier blocks of cipher text can be decrypted without knowledge of the entire cipher next segment. This progressive nature of cipher block chains and stream ciphers matches nicely with the progressive or embedded nature of scalable coding. It is this combination that enables efficient secure transcending operations to be performed in SSS.).

Wee does not disclose calculating a cryptographic checksum for said at least one data segment; or enabling said cryptographic checksum for said at least one data segment to be transmitted separately from said data packet.

Miller discloses calculating a cryptographic checksum for said at least one data segment (col. 1 lines 27-44); and enabling said cryptographic checksum for said at least

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one data segment to be transmitted separately from said data packet. (col. 2-3 lines 58-16).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 30: Wee does not disclose calculating a second cryptographic checksum for a second of said at least one data segment; and enabling said cryptographic checksum for said at least one data segment to be transmitted separately from said data packet.

Miller discloses calculating a second cryptographic checksum for a second of said at least one data segment (col. 1 lines 27-44); and enabling said cryptographic checksum for said at least one data segment to be transmitted separately from said data packet (col. 2-3 lines 58-16).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 32: Wee discloses an apparatus for verifying the integrity of data, comprising: a receiver, said receiver configured to receive first data second data

and a previously determined cryptographic checksum corresponding to said data (page 1 col. 1 ¶2) wherein said plurality of first data segments have a different priority than said plurality of second data segment (page 3 col.2 ¶2 i.e. Progressive encryption methods have the property that smaller blocks of data are encrypted progressively. While block code encryption with small block sizes is not very secure, progressive encryption methods add a degree of security by feeding encrypted data of earlier blocks into the encryption of a later block~ Decryption can then be performed progressively as well. The first small block of cipher text can be decrypted into plaintext by itself while later blocks of cipher text depend on the decrypted plaintext from earlier blocks. Thus, earlier blocks of cipher text can be decrypted without knowledge of the entire cipher next segment. This progressive nature of cipher block chains and stream ciphers matches nicely with the progressive or embedded nature of scalable coding. It is this combination that enables efficient secure transcending operations to be performed in SSS.).

Wee does not disclose an integrity check module coupled to said receiver, said integrity check module configured to calculate a new cryptographic checksum corresponding to said received data and to determine whether said new cryptographic checksum matches said previously determined cryptographic checksum.

Miller discloses an integrity check module coupled to said receiver, said integrity check module configured to calculate a new cryptographic checksum corresponding to said received data and to determine whether said new cryptographic checksum matches said previously determined cryptographic checksum (col. 1 lines 27-44).

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Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 33: Wee does not disclose that said integrity check module is integral with said receiver. Miller discloses that said integrity check module is integral with said receiver (col. 1 lines 27-44).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Regarding claim 34: Wee does not disclose an output coupled to said integrity check module, said output configured to provide an indication of whether said new cryptographic checksum matches said previously determined cryptographic checksum.

Miller discloses an output coupled to said integrity check module, said output configured to provide an indication of whether said new cryptographic checksum matches said previously determined cryptographic checksum (col. 1 lines 27-44).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Wee by the computationally lightweight method & system as taught

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by Miller in order to create a more efficient data verification system (see Miller col. 2 lines 5-14).

Claims 3, 4, 11, 14-22, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wee in view of Miller and further in view of Doyle et al., U.S. Patent Publication No. 2002/0095586 A1 (hereinafter Doyle).

Regarding claim 14: The combination of Wee and Miller discloses a method for ensuring the integrity of data, comprising: for a plurality of data packets comprising a plurality of first data segments and a plurality of second data segments, calculating a cryptographic checksum for said plurality of said first data segments, wherein said plurality of first data segments have a different priority than said plurality of second data segment; and enabling said cryptographic checksum for said plurality of said first data segments to be transmitted separately from said plurality of said data packets, as indicated regarding claim 1, above.

Neither Wee nor Miller discloses a computer readable medium having instructions stored therein for implementing said method. Doyle discloses a computer readable medium having instructions stored therein for implementing said method (Abstract).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to implement the combination Wee and Miller via the technique taught by

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Doyle in order to conveniently and economically distribute operational copies of the software embodying the method to multiple computing devices (see Doyle [0018]).

Regarding claims 3, 16 and 31: The combination of Wee and Miller, as indicated regarding claims 1, 14 and 29, above, does not disclose including said cryptographic checksum for said plurality of said first data segments and said cryptographic checksum for said plurality of said second data segments in the same data packet.

Doyle discloses including said first cryptographic checksum for said plurality of said first data segments and said cryptographic checksum for said plurality of said second data segments in the same data packet [0069].

Therefore, it would have been obvious to one skilled in the art at the time of the invention to implement the combination Wee and Miller via the technique taught by Doyle in order to create a more computationally efficient data verification system (see Doyle [0018] and Miller col. 2 lines 5-14).

Regarding claims 4 and 17: The combination of Wee and Miller, as indicated regarding claims 1, 14 and 29, above, does not disclose that said cryptographic checksum for said plurality of said first data segments is calculated at a rate which is different from the rate at which said cryptographic checksum for said plurality of said second data segments is calculated.

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Doyle discloses that said cryptographic checksum for said plurality of said first data segments is calculated at a rate which is different from the rate at which said cryptographic checksum for said plurality of said second data segments is calculated [0073]-[0075].

Therefore, it would have been obvious to one skilled in the art at the time of the invention to implement the combination Wee and Miller via the technique taught by Doyle in order to create a more computationally efficient data verification system (see Doyle [0018] and Miller col. 2 lines 5-14).

Regarding claims 11 and 20: The combination of Wee and Miller, as indicated regarding claims 1 and 14, above, does not disclose that said data is stored in a storage medium. Doyle discloses that said data is stored in a storage medium [0003] and [0005].

Therefore, it would have been obvious to one skilled in the art at the time of the invention to implement the combination Wee and Miller via the technique taught by Doyle in order to create a more computationally efficient data verification system (see Doyle [0018] and Miller col. 2 lines 5-14).

Claim 15 is rejected for the same reason as indicated regarding claim 2, above.

Claim 18 is rejected for the same reason as indicated regarding claim 7, above.

Claim 19 is rejected for the same reason as indicated regarding claim 10, above.

Claim 21 is rejected for the same reason as indicated regarding claim 12, above.

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Claim 22 is rejected for the same reason as indicated regarding claim 13, above.

Prior Art Made of Record

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is:

- Brunk et al., U.S. Patent Publication No. 2002/0157005 A1 regarding including a
 metric in a digital watermark for media authentication.
- Walmsley et al., U.S. Patent Publication No. 2003/0159036 A1 regarding a validation protocol and system.
- Ramage, U.S. Patent No. 4,790,028 regarding a method for generating variably scaled displays.
- Mumford, U.S. Patent No. 5,321,807 regarding an accelerated graphics display method.
- Sciammarella et al., U.S. Patent No. US 6,320,599 B1 regarding a zooming scale indicator in computer graphics.
- Romrell, U.S. Patent No. 6,396,805 B2 regarding a system for recovering from disruption of a data transfer.
- Mualem et al., U.S. Patent Publication No. 2002/0166070 A1 regarding reducing errors of a security association.
- Shanklin et al., U.S. Patent No. 6,954,775 B1 regarding parallel intrusion detection sensors with load balancing for high speed networks.

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- Feldbau et al., U.S. Patent No. 6,571,334 B1 regarding authenticating the dispatch and contents of documents.
- Sudia, U.S. Patent No. 5,850,451 regarding an enhanced cryptographic system with key escrow feature.
- Benayoun et al., U.S. Patent No. 6,804,257 B1 regarding framing and protecting variable length packet streams.
- Wee et al., U.S. Patent Publication No. 2002/0163911 A1 regarding midstream transcoding of secure scalable packets in response to downstream requirements.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Almeida whose telephone number is 571-270-1018. The examiner can normally be reached on Monday-Thursday from 7:30 A.M. to 5:00 P.M. The examiner can also be reached on alternate Fridays from 7:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Devin Almeida Patent Examiner 8/8/2007

GILBERTO BARRON うん SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100